



Alan C. Lloyd, Ph.D.
Agency Secretary
Cal/EPA



Department of Toxic Substances Control

Maureen F. Gorsen, Director
5796 Corporate Avenue
Cypress, California 90630



Arnold Schwarzenegger
Governor

March 27, 2006

Mr. Richard Solander
AFRPA/DD-March BRAC Environmental Coordinator
3411 Olson Street
McClellan, California 95652-1071

FINAL CLOSURE REPORT, SITE 10, NORTON AIR FORCE BASE

Dear Mr. Solander:

The Department of Toxic Substances Control (DTSC) has reviewed the above referenced document for Norton Air Force Base received on March 6, 2006. The report presents the activities performed at Site 10 for the removal of contaminated soil and site restoration. The soil at this site was impacted by lead and dioxin/furan. The objective of this removal was to cleanup the site for unrestricted land uses. The target cleanup goal of 10 ng/kg was jointly established by the Air Force, US Environmental Protection Agency, US Fish and Wildlife Service, California Department of Fish and Game, Santa Ana Regional Water Quality Control Board, and DTSC.

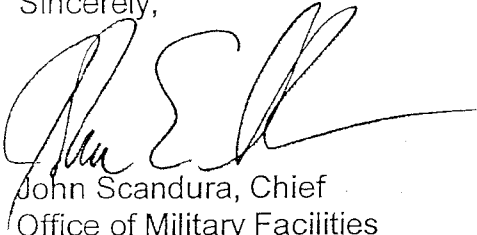
The Air Force removed approximately 2,700 cubic yards of lead/dioxin contaminated soil and disposed of the soil to Chemical Waste Management Inc., in Kettleman City, California. The Air Force also excavated 16,305 cubic yards of non-hazardous soil and transported the soil to Redlands City Landfill. A total of 32 soil samples were collected prior to excavation to profile the soil and to direct soil removal. After excavation the Air Force collected 18 confirmation samples from both inside and outside the excavation area.

The Closure Report includes a post-remedial risk analysis with a total excess cancer risk to be 4.8×10^{-6} and a non-cancer hazardous index 0.033 based on child exposure on the entire site. The ecological risk assessment renders that the hazard quotient for San Bernardino Kangaroo Rat is calculated to be 0.45. One confirmation soil sample collected in the Kangaroo Rat habitat area contained 30 ng/kg of dioxin, which is higher than the cleanup goal of 10 ng/kg. Due to the limited accessibility to the habitat area and any disturbance caused to Kangaroo Rats by excavation, DTSC believes that further excavation is unnecessary and that Site 10 may be closed without land use restrictions.

Mr. Richard Solander
March 27, 2006
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If you have any questions regarding this letter and the attached comments, please contact Mr. Manny Alonzo at (714)484-5425 and Mr. Stephen Niou at (714) 484-5458.

Sincerely,

A handwritten signature in black ink, appearing to read 'John Scandura', written over the printed name.

John Scandura, Chief
Office of Military Facilities
Southern California Operations Branch

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